

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

John C. Harvey and James W. Cuddihy

Applicants Serial No.

08/447,974

Docket No.

5634,145

Filed For

May 23, 1995

SIGNAL PROCESSING APPARATUS AND METHODS

Group Art Unit 2611

Examiner

Andrew I Faile

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Commissioner for Patents Washington, D.C. 20231

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, applicants respectfully request consideration of the references listed on the attached citation form. This Supplemental Information Disclosure Statement replaces the Supplemental Information Disclosure Statement filed June 18, 2002, in the above captioned application. The June

2002 Supplemental IDS was filed under 37 C.F.R. 1,98(c)(1). However, it has come to my attention that some references designated by the June 2002 Supplemental IDS may have been known to individuals associated with the filing or prosecution of this application as

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defined in 37 C.F.R. § 1.56(c) more than three months prior to June 18, 2002.

Accordingly, I hereby withdraw any statement to the contrary made in the June 2002

Supplemental IDS and submit the instant Supplemental IDS under 37 C.F.R. § 1.98(c)(2).

A check for \$180.00 accompanies this submission. Please charge any additional fees or

credit any overpayment to Deposit Account Number 06-1075.

copending applications.

The attached citation form includes each and every reference designated in the citation form submitted with the June 2002 Supplemental IDS. The attached citation form also includes additional references that have been asserted against applicants' related issued patents and additional references that have been cited by the Office in applicants'

Applicants respectfully request that the Examiner consider the references cited and that the Examiner indicate that the references have been considered in this application by returning a copy of the citation form with the Examiner's initials in the left column per M.P.E.P. § 609.

Pursuant to an agreement reached between the Office and applicants (see first Office Action issued in this application), applicants are to file copies of prior art only once. One copy of the additional references was submitted with the information disclosure statements filed February 7, 2003, in applicants' copending Application Number 08/487.526 (Attv. Dkt. No. 5634.355).

"Eine Neue Generation Mikroprozessorgesteuerter Datensender Und -Empfånger Für Alle Varianten Der Datenübertragung In Der V-Lücke Des Fernsehisgnals", by A. Ebner and K. Schuster, Rundfunktechnische Mitteilungen, Vol. 26, No. 5, pp. 215-220, is a German language article related to data transmitters and receivers that can be adapted by

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microcomputer control to given variants of data transmission. "Codifica Numerica Del Segnale Sonoro - Interfaccia Per Gli Apparati Professionali" by M. Barbero and M. Occhiena, Elettronica e Telecomunicazi oni, Vol. 34, No. 5, pp. 209-216, October, 1985, is an Italian language article related to interface specifications for the interconnection of digital audio equipment within a broadcasting complex. Both of these articles include English summaries.

Japanese patent document 62-12285 is related to a teletext receiving device.

Japanese patent document 61-236284 is related to a character signal receiver. Both of these Japanese documents were cited by the Office to applicants in copending Application Serial Number 08/479,374 (Atty. Dkt. No. 5634.148) without corresponding English translations. Applicants provided translations of these Japanese patent documents with the amendment filed March 6, 2003, in Application Serial Number 08/479,374.

As noted above, the references cited herein have been asserted against applicants' related issued patents or cited in applicants' copending applications. In accordance with 37 C.F.R. § 1.97, applicants do not admit that each and every reference cited herein is considered to be material to patentability or to be prior art.

Date: March 14, 2003 HUNTON & WILLIAMS 1900 K Street, N.W. Washington, DC 20006 Respectfully submitted,

Thomas J. Scott, Jr. Reg. No. 27,836

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INFORMATION DISCLOSURE OIP STATEMENT BY APPLICANT

CITATION FORM

Attorney Docket No. Serial No. 08/447,974 05634.145 Applicant(s)

John C. Harvey and James W. Cuddihy Filing Date Group Art Unit May 23, 1995 2611

LINITED STATES DATENT DOCUMENTS

MAR 1 4 2003	<i>y</i>		Filing Date May 23, 19	95	Group Art Unit 2611	
RADEMARK	y 	UNITED STA	ATES F	PATENT DO		
EXAMINER INITIAL	NUMBER	PATENT DATE	NAME		CLASS/ SUBCLASS	FILING DATE*
	Re 26,331	1/9/68	Broth	man et al.		
	Re 33,189	3/27/90	Lee et	al.		
	2,117,638	5/17/38	Walte			
	3,368,031	2/6/68	Eisele			
	3,387,082	6/4/68	Farber	et al.		
	3,387,083	6/4/68	Farber	et al.		
	3,390,234	6/25/68	Glidde	en	REC	EIVED
	3,430,004	2/25/69	Shenk			-IVED
	3,475,547	10/28/69	Sarlun	ıd	MAR	2 0 2003
	3,478,342	11/11/69	Alldri	tt et al.	Toobard	
	3,588,357	6/28/71	Sellari		recnnolog	Center 2600
	3,624,516	11/30/71	Rando	et al.		
	3,737,858	6/5/73	Turne	r et al.		
	3,813,482	5/28/74	Blond	er		
	3,842,206	10/15/74	Barsel	loti et al.,		
	3,858,240	12/31/74	Goldii	ng et al.		
	3,898,378	8/5/75	Hinos	hita et al.		
	3,899,639	8/12/75	Cleve	ley et al.,		
	3,922,492	11/25/75	Lumse	den		
	3,936,593	2/3/76	Aaron	son et al.,		
	3,958,088	5/18/76	Vieri			
	3,962,535	6/8/76	Haske	11		
	3,971,888	7/27/76	Ching			
	3,974,451	8/10/76	Maede			
	3,988,550	10/26/76	Ts'ao			
	4,006,297	2/1/77	Koga			
The state of the s	4,011,414	3/8/77	Warre	n .		
	4,027,100	5/31/77	Ishigu			
	4,031,543	6/21/77	Holz			
	4,045,811	8/30/77	Dingv	all		
	4,045,814	8/30/77	Hartu			
	4,047,221	9/6/77	Yasud			1
	4,056,684	11/1/77	Lindst		-	
	4,060,832	11/29/77		neux et al.		
	4,061,577	12/6/77	Bell		-	
	4,068,265	1/10/78	Russe	11		
	4,118,669	10/3/78	Fung			
	4,141,034	2/20/79	-	ali et al.		
	4,148,070	4/3/79	Taylo			

2

EXAMINER	PATENT	PATENT		01.400/	Z Z
INITIATE	NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
7017-	4,189,748	2/19/80	Reis	CODOLICO	5,,,,
/	4,125,288	3/25/80	Morton		
MAR 1 4 20	74,196,448	4/1/80	Whitehouse et al.		
1	4,291,887	5/6/80	Burns		
7.	43-03,166	5/13/80	Ehrsam et al.	DECI	-11/50
م المعالب م	4,215,369	7/29/80	Yukihiko Iijima	TIEUL	HVED -
	4,217,609	8/12/80	Hatori et al.	MAR 9	± 2003
	4,218,697	8/19/80	Leventer		
	4,222,073	9/9/80	Hirashima	Technology	Center 2600
	4,224,678	9/23/80	Lynch et al.		
	4,238,853	12/9/80	Ehrsam et al.		
	4,238,854	12/9/80	Ehrsam et al.		
	4,258,423	3/24/81	Lane et al.		
	4,271,506	6/2/81	Broc et al.		
	4,302,775	11/24/81	Widergren et al.		12/15/78
	4,306,250	12/15/81	Summers et al.		8/18/80
	4,318,126	3/2/82	Sassler		4/2/80
	4,318,127	3/2/82	Fukuda et al.		8/1/80
	4,318,128	3/2/82	Sauvanet		7/15/80
	4,333,107	6/1/82	McGuire et al.		5/3/79
	4,357,548	11/2/82	Preslar		5/30/80
	4,358,790	11/9/82	Summers		4/18/80
	4,369,462	1/18/83	Tornizawa et al.		8/15/80
	4,369,464	1/18/83	Temime		7/8/80
	4,375,650	3/1/83	Tiemann		4/29/81
	4,381,562	4/26/83	Acampora		5/1/80
	4,419,699	12/6/83	Christopher et al.		
	4,420,833	12/13/83	Noirel		9/22/80
	4,514,761	4/30/85	Merrell et al		
	4,534,024	8/6/85	Maxemchuk et al.		
	4,600,942	7/15/86	Field et al.		
	4,658,292	4/14/87	Okamoto et al.		
	4,695,880	9/22/87	Johnson et al.		7/30/85
	4,713,837	12/15/87	Gordon		12/24/85
	4,736,420	4/5/88	Katznelson et al		9/19/86
	4,777,354	10/11/88	Thomas		1/27/86
	4,780,910	10/25/88	Huddleston et al.		10/24/85
	4,908,859	3/13/90	Bennett et al		
	4,930,160	5/29/90	Vogel		
	4,937,821	6/26/90	Boulton		
	5,099,348	3/24/92	Huddleston et al.		
	3,472,962	10/14/69	Sanford		
	4,034,990	7/12/77	Baer		
	4,247,106	1/27/81	Jeffers et al		
	4,359,223	11/16/82	Baer et al		11/01/79
	4,460,922	7/17/84	Ensinger et al		
	4,533,943	8/6/85	Poirier		
	4,580,779	4/8/86	Kanamaru et al		

١	EXAMINER	PATENT	PATENT		' CLASS/	FILING
١	INITIAL	NUMBER	DATE	NAME	SUBCLASS	DATE*
1		4,695,879	9/22/87	Weinblatt		2/7/86
1	010	4,716,588	12/29/87	Thompson et al		10/29/85
λ	4	4,751,578	6/14/88	Reiter et al		5/28/85
٠,				·		

* If Pertinent

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSI YES	ATION NO
INTIAL	GB 2 155 283	9/18/83	United Kingdom	SOBOLASS	,,,,	
	JP 56116385	9/12/81	Japan		Х	
	JP 62060378	3/17/87	Japan		X	
	61-236284	10/1986	Japan		Х	
	62-12285	1/1987	Japan		X	
	DE 33 28 001	2/14/85	Germany		X	
	DE 33 35 082	4/11/85	Germany		X	

OTHER DOCUMENTS

EX/	EXAMINER						
INITIAL		L	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.				
			CHORAFAS, "Interactive Videotex: The Domesticated Computer," 1981, Petrocelli Books, New York				
			HINTON, "Character rounding for the Wireless Word Teletex Decoder," Wireless World, Nov. 1978, pp. 49-53, Vol. 84 No. 1515, IPC Business Press, United Kingdom				
			KRUGER, "Speicherfernsehen, Das Digitale Kennungssystem ZPS," Proceedings 9th International Congress Microelectroncis, pp. 39-45				
			"Fernsehempfang rund um die Uhr" Funk Technik, Mar. 1981, Vol 36				
			"Method for the Transmission of Additional Information," German Patent Application submitted by Blaupunkt Werke GMBH, filed May 31, 1980				
Techn	~	٦Ĥ	"Eine Neue Generation Mikroprozessorgesteuerter Datensender Und -Empfänger Für Alle Varianten Der Datenübertragung in Der V-Lücke Des Fernsehisgnals", A. Ebner and K. Schuster, Rundfunktechnische Mitteilungen, Vol. 26, No. 5, pp. 215-220				
Technology Center 2600	AR 2		"A Novel Television Add-On Data Communication System", January, 1974, Patrick T. King, Society of Motion Picture and Television Engineers Journal, Vol. 83				
0	-		"Actual Two-Way Systems," Ronald K. Jurgen, IEEE Spectrum, November 1971				
enter	200	7	"Additional Information Within the Television Signal", September 1970, R. A. O'Connor, , Journal of the Society of Motion Picture and Television Engineers, Vol. 79, No. 9, p. 824				
260	ω	Ü	"Applications of Information Networks," J.C.R. et al, Proceedings of the IEEE, Vol. 66, No. 11, pp. 1330-1346, November 1978				
_,			"Automated Control Units for Advertising On Cable," G. Morgan, Image Technology, Vol. 68, No. 9, pgs. 457, 460, September 1986				
			"Coded Information Within the Picture Area", February, 1974, Wilton R. Holm, , Society of Motion Picture and Television Engineers Journal, Vol. 83				
			"Color Decode a PCM NTSC Television Signal", June, 1974, John P. Rossi, , Society of Motion Picture and Television Engineers Journal, Vol. 83				
			"Comparison of Technology and Capital Costs of New Home Services," Metin B. Akgun, IEEE Transactions on Cable Television, Vol. CATV-5, No. 3, July 1980				
			"Codifica Numerica Del Segnale Sonoro - Interfaccia Per Gli Apparati Professionali", October, 1985, M. Barbero and M. Occhiena, Elettronica e Telecomunicazi oni, Vol. 34, No. 5, pp. 209-216				
	4.V.*.		"Encryption-based security systems", 5/29/87-6/1/87, Wechselberger, , NCTA Convention Records pp. 148-152				

EVANORD	
EXAMINER INITIAL	ALITHOD TITLE DATE DEPTRIESE DACES ETC
INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	"Experiences with Piolot Projects in North America, Japan, and Europe", 1977, Eds. W. Kaiser, H. Marko, and E. Witte, Two-Way Cable Television
910	Going for The Microcomputer Market with Commercial Telesoftware", 1982, M. Shain, Viewdata 82
/	"Lard encrypted video & audio television system", 3/15/86-3/18/86, Jeffers, Glaab 8&. Griffin, , NCTA
MAR 16m	Convention Becords on 222 224
MAR 1 200	"Historia Addressability," Stubbs & Holobinko, National Cable Television Association Convention, pp. 255-265,
RADEMARK !	Individualized Still-Picture Communication on a Two-Way Broad-Band CATV System," Koji Maeda, IEEE Transactions on Communications, Vol. COM-23, No. 1, January 1975
	"Low Cost Interactive Home TV Terminal," Stetten & Mason, National Cable Television Association Convention, pp. 49-53, 7/6-7/9/1971
	"Measurement and Control of TV Transmitters," Shelley and Smart, Society of Motion Picture and Television Engineers Journal, Vol. 80, November 1971
	"Off Premises Addressability," Preschutti, National Cable Television Association Convention, pp. 48-57, 6/2-6/5/1985
	"On Distributed Communications," Paul Baran, The RAND Corporation, Volumes 1-10
	"Operational Implementation of a Broadcast Television Frame Synchronizer", March, 1975, Robert J. Butler, Society of Motion Picture and Television Engineers Journal, Vol. 84
	"Pilot Two-Way CATV Systems," Ernest K. Smith, IEEE Transactions on Communications, Vol. COM-23, No. 1, January 1975
	"Some Methods of Automatic Analysis of Television Test Signals", December 1971, R. H. Vivian, Society of
8 7	Motion Picture and Television Engineers Journal, Vol. 80
MA C	"SRS El Segundo Interim Test Report," Callais, National Cable Television Association Convention, pp. 384-407, 5/14-5/17/1972
20 x	"Status Monitoring System," Hale, National Cable Television Association Convention, pp. 153-158, 1974
S ~ □	
B . S	ITC/USA/'80, International Telemetering Conference, P. 650, pp. 345-349
e S II	"Television Central," Society of Motion Picture and Television Engineers Journal, Vol. 85, October 1976
MAR 2 v 2013 Technology Center 201	"The Digital Video Effects System," Patten, Society of Motion Picture and Television Engineers Journal, Vol. 87, April 1978
	"The Magnavox Premium TV System," Forbes & Cooley, National Cable Television Association Convention, pp. 100-104, 6/17-6/20/1973
	"The Subscriber Response System," Durfee & Callais, National Cable Television Association Convention, pp. 28-48, 7/6-7/9/1971
	"TV Frame Synchronizer," Kano, et al., Society of Motion Picture and Television Engineers Journal, Vol. 84, March 1975
	"Two-Way Coax TV System Handles All Communication Needs," George F. Benton, Communications News, April 1975
	"Use of Low Frequency Bi-Directional Digital Transmission On Cable," Ellis, National Cable Television Association Convention, pp. 38-45, 4/17-4/20/1977
	"Videotex & Teletext," Technical Panel, National Cable Television Association Convention, pp. 160-184, 6/12-6/15/1983
	"Videotex Networks," J. Stynen and M. Keymolen, Revue HF, Vol. 1, No. 12, pgs. 413-424, 1981
	"Videotex Technologies," Technical Panel, National Cable Television Association Convention, pp. 99-123, 5/29-6/1/1981
	DAS DIGITALES FERNSEHKENNUNGSSYSTEM ZPS, H. Eckhard Krüger, ntz Bd. 35 (1982) Helft 6 ("THE DIGITAL TELEVISION IDENTIFICATION SYSTEM ZPS," ntz, Vol. 35, No. 6, 1982, pgs. 368-376)
	DIGITALES KENNUNGSSYSTEM ZPS, Dr. H. E. Krüger, Forderungsvorhaben TK 0054/3 ("DIGITAL
	IDENTIFICATION SYSTEM ZPS," Dr. H. E. Krüger, Research Project TK 0054/3, Final Report, October 1, 1978 to October 31, 1979)
	Hi-OVIS Development Project, M. Kawahata, Presented in Two-Way Cable Television, Experiences with Pilot
	Projects in North America, Japan and Europe, Proceedings of a Symposium Held in Munich, April 27-29, 1977,
	pages 135-142
	Prigary Aven A M

EXAMINER						
INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.					
OIPE	Kinghorn, J.R., 11/00/85, "Using Extensions to World System Teletext," IEEE Transactions on Consumer Electronics, Vol. CE-31, No. 4, pp. 661-666					
/	the Videotex and Teletext Handbook, Hurly et al., Harper and Row Publishers, Inc., 1985					
MAR 1 4 2003	the Videotex and Teletext Handbook, Hurly et al., Harper and Row Publishers, Inc., 1985 - Way Applications for Cable Television Systems in the '70s, Ronald K. Jurgen, Editor, IEEE Spectrum, Nov. 1971					
A DEMORMAN C	XEREINBARUNG ZVEI/ARD/ZDF ZUR ZRD/ZDFZ/VEI – TICHTLINIE "VIDEO-PROGRAMM-SYSTEM (VPS)," ARD/ZDF, December 4, 1984 (MEMORANDUM OF UNDERSTANDING ZVEI/ARD/ZDF ON THE ARD/ZDF/ZVEI GUIDELINE FOR A 'VIDEO PROGRAMMING SYSTEM (VPS)")					
	VIDEOPROGRAMMSYSTEM DER 2. GENERATION, Von Gunther Stacker, net 40 (1986), Heft 7/8 ("SECOND-GENERATION VIDEO PROGRAMMING SYSTEMS," Von Gunther Stacker, net Vol. 7/8 No. 40 (1986), pgs. 311-315)					
	VIDEOTEXT PROGRAMMIERT VIDEOHEIMGERATE (VPV), Gerhard Eitz, Karl-Ulrich Oberlies, Fundfunktechnische Mitteilungen, Jahrg. 30 (1986), H. 5 ("VCR PROGRAMMING VIA TELETEXT")					
	VIDEOTEXT PROGRAMMIERT 'UIDEORECORDER, Von Gunther Hofmann, Andreas Neuman, Karl-Ulrich Oberlies and Eckhard Schadwinkel, Rundfunktech Mitteilunger, Jahrg. 26 (1982) H. 6 ("VIDEOTEXT PROGRAMS VIDEO RECORDER")					
	VIDEOTEXT UND BILDSCHIRMTEXT MIT DEN LSI-SCHALTUNGDEN SAA 5020, SAA 5030, SAA 5041 UND SAA 5051, Valvo, Technische Information für die Industrie, April 1980 ("VIDEOTEXT AND INTERACTIVE VIDEOTEX WITH THE LSI-CIRCUITS SAA 5020, SAA 5030, SAA 5041 AND SAA 5051)					
	Viewdata: A Public Information Utility, Second Edition, 1980, Dr. Adrian V. Stokes					
	WUNSCHPROGRAMM AUS DER FERNSEHZEITSCHRIFT, Funkschau 12/1981, pgs. 6070 ("RECORDING PROGRAMS FROM THE PROGRAM GUIDE," Funkschau 12/1982, pgs. 60-70)					

EXAMINE	R /Michael Moore Jr/	DATE CONSIDERED 10/20/2009				
	EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).					

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